

FIG. 1

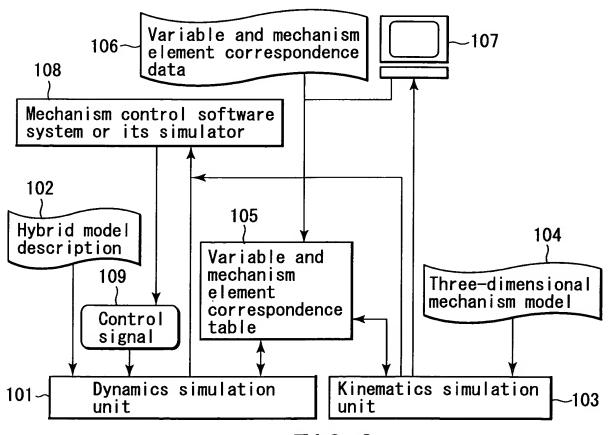
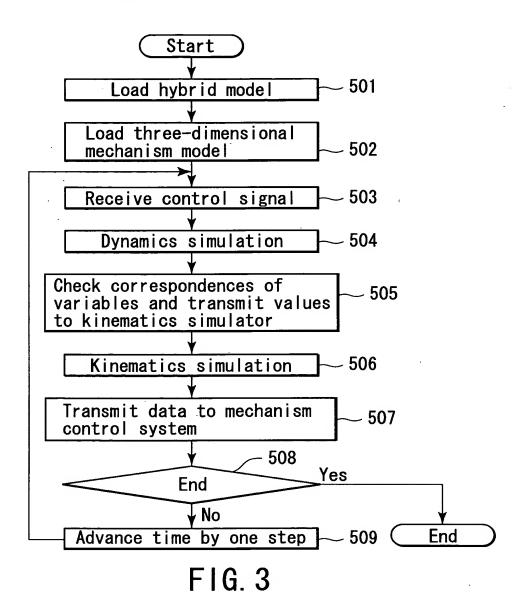
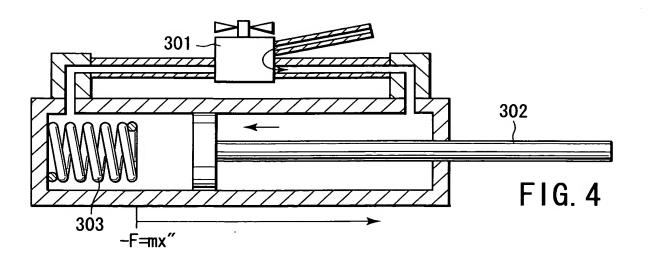


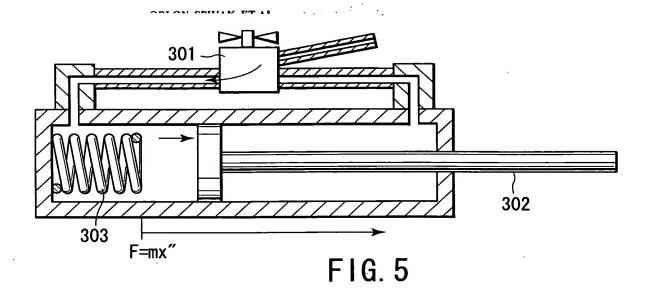
FIG. 2

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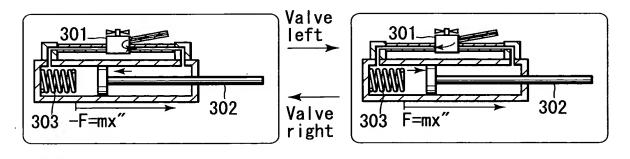


FIG. 6

```
L1...#define m 1
L2...#define f 100
L3...Right ev1
L4...wait 50 do Left ev3
L5...always if Left then do always F=m*x" watching Right,
L6...always if Right then do always -F=m*x" watching Left,
L7...sample(x),
L8...x=0, x'=0,
```

FIG. 7

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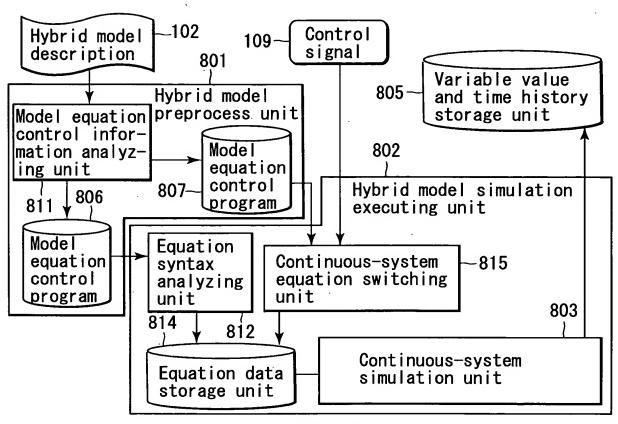
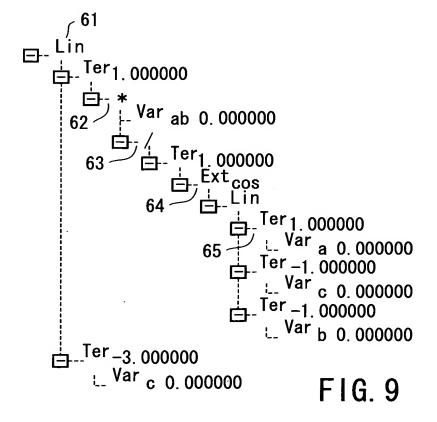
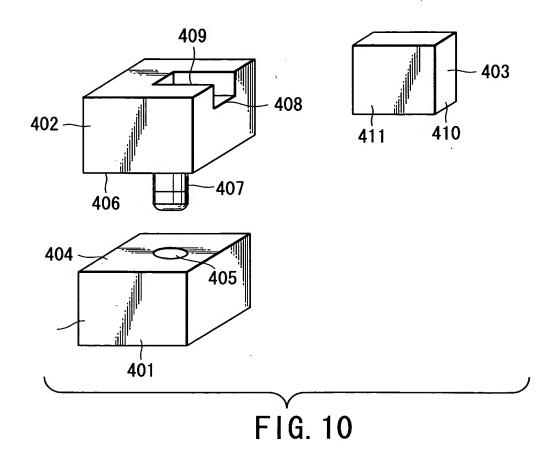
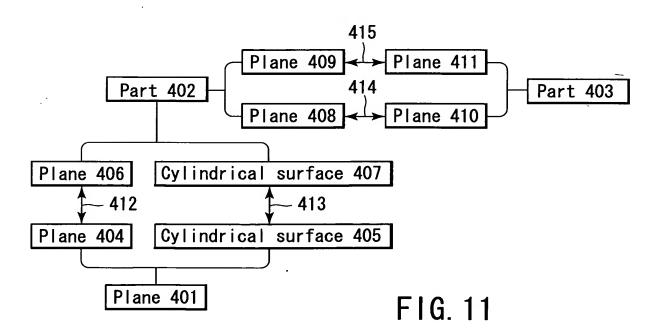


FIG. 8

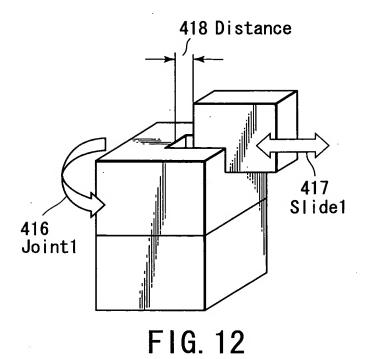


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Variable	Mechanical element name
, X	Slide1
у	Joint1

FIG. 13

```
cont a, b;
cont sin(cont x);

a=0;
b=0;
always {
   b' =0.2;
   a' =sin(b);
}
sample(a);
```

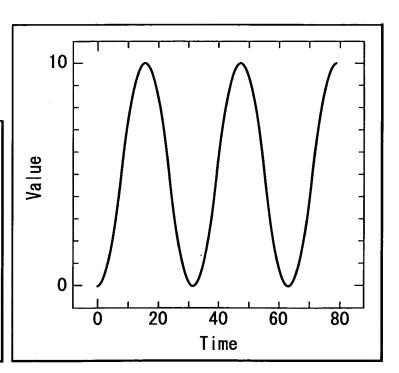
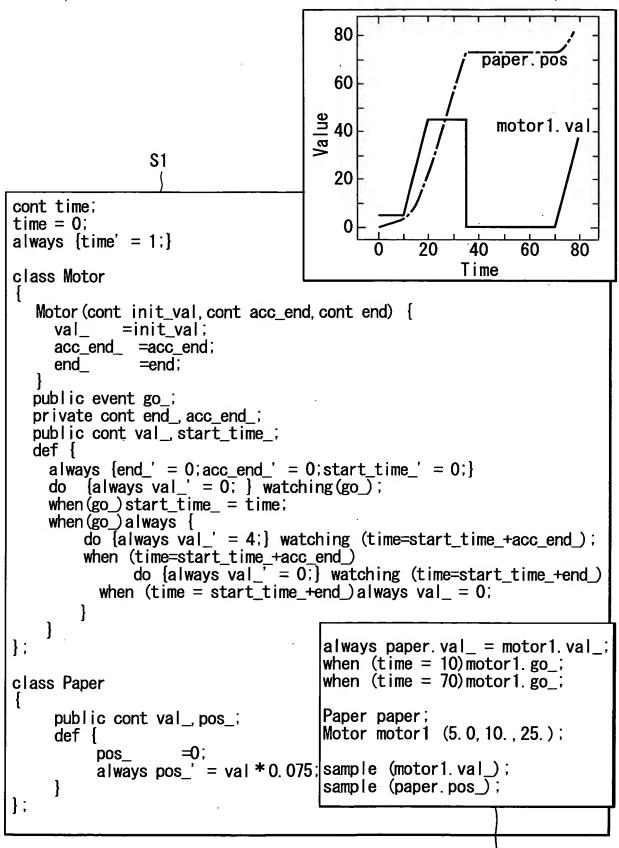


FIG. 14

```
Value
                               10
class DCML_Class
   public cont m_a;
                                        20
                                              40
                                                   60
                                                         80
   DCML_Class(cont a) {
                                            Time
      m_a = a;
      m_a' = 0.01;
   def {
      do {
        always m_a'' + (1/4) * m_a' + 0.03 * m_a = 1/2;
      } watching (m_a' = 0);
      when (m_a' = 0) always \{m_a' = 0; \}
DCML_Class app1(1);
sample(app1.m_a);
```

FIG. 15



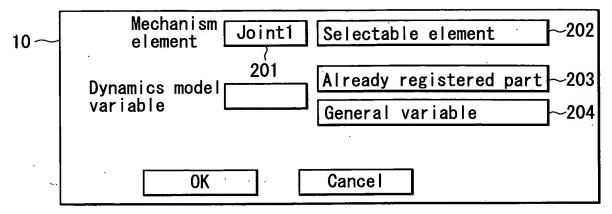
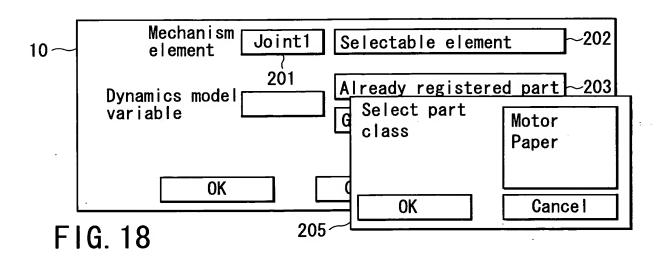
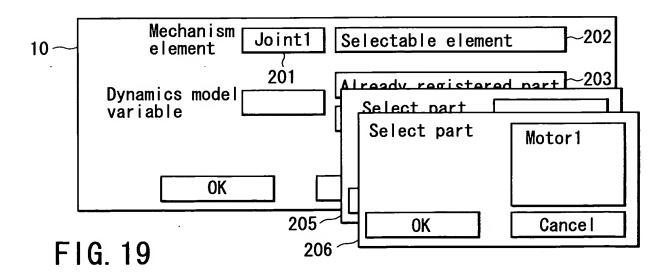
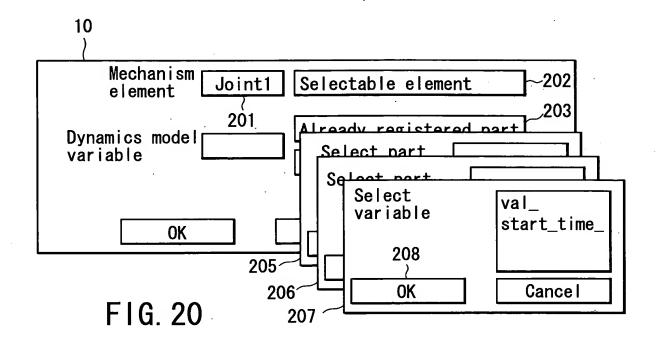


FIG. 17







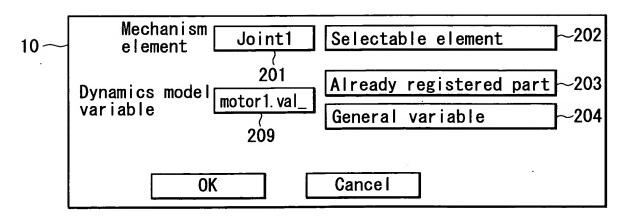


FIG. 21